11-18-03

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Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

11/17/2003

Date

TRANSMITTAL **FORM**

(to be used for all correspondence after initial filing)

09/988,847 **Application Number** 11/19/2001 **Filing Date** Daniel E. Resasco et al. **First Named Inventor** Group Art Unit 17.54 (Conf. No. 9377) S. Hendrickson **Examiner Name** Attorney Docket Number | 5820.615

Total Number of Pages in This Subm	Attorney Docket Number	5820.615			
ENCLOSURES (check all that apply)					
X Fee Transmittal Form	Assignment Papers (for an Application)	After Allowance Communication to Group			
Fee Attached	Drawing(s)	Appeal Communication to Board of Appeals and Interferences Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)			
Amendment / Reply	Licensing-related Papers				
After Final	Petition Petition	Proprietary Information			
Affidavits/declaration(s)	Petition to Convert to a Provisional Application	Status Letter			
Extension of Time Request	Power of Attorney, Revocation Change of Correspondence Address	X Other Enclosure(s) (please identify below):			
Express Abandonment Request	Terminal Disclaimer Request for Refund	See remarks below:			
X Information Disclosure Statement	CD, Number of CD(s)				
Certified Copy of Priority Document(s)	Remarks				
Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53	1. Transmittal (1 page); 2. Fee Transmittal (1 page) Authorizing the Commissioner to charge indicated fees of \$180.00 (which includes \$80.00 for Submission of IDS) and any additional fee required and/or credit any overpayments to Deposit Account Dunlap, Codding & Rogers, P.C.; 3. Supplemental Information Disclosure Statement (3 pages); 4. Supplemental Form PTO-1449 (2 pages); 5. Copies of cited material; and 6. Return Receipt Postcard				
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT					
l or	DING & ROGERS, P.C., Customer N), Oklahoma City, Oklahoma 73113;				
Signature Current Curr					
Date 11/19/03/					
CERTIFICATE OF MAILING					

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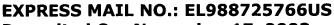
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DUNLAR CODDING & ROGERS PC				
OFER TOANS		Complete if Known		
O'FEE TRANS		Application Number	09/988.847	
NOV 4 7 2003 PE	ኃ ሰሰ 2	Filing Date	11/19/2001	
Special to annual revision.		First Named Inventor	Daniel E. Resasco et al.	
		Examiner Name	S. Hendrickson	
Applicate laims small entity status	. See 37 CFR 1.27	Art Unit	1754	
TOTAL AMOUNT OF PAYMENT	(\$) 180	Attorney Docket No.	5820.615	
METHOD OF PAYMENT (check	k af Pthat apply)	FEE CA	FEE CALCULATION (continued)	
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Deposit Account: Deposit Account Number Deposit Account Name The Commissioner is authorized to: (check all that apply) Micharge fee(s) indicated below Charge any additional fee(s) during the pendency of this application Charge fee(s) indicated below, except for the filling fee to the above-identified deposit account. FEE CALCULATION 1. BASIC FILING FEE Large Entity Fee Fee Fee Fee Fee Fee Fee Fee Fee Fe			
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1400 000 045 Demost for and bearing			
1004 770 2004 385 Reissue filing fee 1403 290 2403 145 Request for oral hearing			
1005 160 2005 80 Provisional filing fee 1451 1,510 1451 1,510 Petition to institute a public use proceeding			
SUBTOTAL (1) (\$) 0 1452 110 2452 55 Petition to revive - unavoidable			
1453 1.330 2453 665 Petition to revive - unintentional			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 1501 1,330 2501 665 Utility issue fee (or reissue)			
Ext <u>ra Claims below Fee Paid</u> 1502 480 2502 240 Design issue fee			
Total Claims ** = X = \$0 1503 640 2503 320 Plant issue fee			
Independent - ** = X = 450 130 1460 130 Petitions to the Commissioner			
Multiple Dependent = \$0 1807 50 1807 50 Processing fee under 37 CFR 1.17(q)			
Large Entity Small Entity 1806 180 1806 180 Submission of Information Disclosure Stmt 180			
Fee Fee Fee Fee Description Code (\$) Recording each patent assignment per 8021 40 Recording each patent assignment per			
1202 18 2202 9 Claims in excess of 20			
1202 16 2202 3 Statistic in Section 1809 770 2809 385 Filing a submission after final rejection (37 CFR 1.129(a))			
1203 290 2203 145 Multiple dependent claim, if not paid 1810 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b))			
1204 86 2204 43 ** Reissue independent claims over original patent 1801 770 2801 385 Request for Continued Examination (RCE)			
1205 18 2205 9 ** Reissue claims in excess of 20 1802 900 Request for expedited examination of a design application			
Other fee (specify)			
SUBTOTAL (2) (\$) 0 **or number previously paid, if greater; For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 180			
Complete (if applicable)			

Registration No. (Attorney/Agent) 36,109 Name (Print/Type) Telephone (405) 607-8600 11/17/2003 Date Signature



Deposited On: November 17, 2003



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

09/988,847

Confirmation No.: 9377

FOR

Applicant(s) :

Daniel E. Resasco, Boonyarach Kitiyanan,

Jeffrey H. Harwell and Walter Alvarez

Filed

11/19/2001

TC/A.U.

1754

Examiner

S. Hendrickson

Title

METALLIC CATALYTIC PARTICLE

PRODUCING SINGLE-WALLED CARBON

NANOTUBES

Docket No.

5820.615

Customer No.

30589

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

- 1. [X] Preliminary Statements
- 2. [X] FORM PTO-1449 (Modified)
- 3. [] Statement as to Information Not Found in Patents or Publications
- 4. [X] Copies of Listed Information Items Accompanying this Statement

5820.615 Supplemental IDS.wpd

5. [X] Identification of Person(s) Making this Information Disclosure Statement

Section 1. Preliminary Statements

Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Section 2. Form PTO-1449 (Modified)

- [X] A completed Form 1449 (Modified) is attached hereto.
- [] No Form 1449 (Modified) is attached.

Section 3. Statement as to Information Not Found in Patents or Publications (Information Not Listed in Form PTO-1449)

Section 4. Copies of Listed Information Items Accompanying this Statement

Legible copies of all items listed in Form PTO-1449 (Modified) accompany this information disclosure statement.

Section 5. Identification of Person(s) Making this INFORMATION DISCLOSURE STATEMENT

The person making this statement is the attorney who signs below on the basis of the information:

- [] supplied by the inventor(s)
- [] supplied by an individual associated with the filing and prosecution of this application (37 C.F.R. § 1.56(c)).
- [] in the attorney's file
- [X] provided in the International Search Report cited herein

Respectfully submitted,

Christopher W. Corbett, Reg. No. 36,109

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(405) 607-8600 - telephone

(405) 607-8686 - telefax

Agent for Applicant(s)

Express Mail: EL988725766US Date Deposited: 11/17/2003

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

NOV 1 7 2003 8

C mplete if Known

Application Number 09/988,847

Filing Date 11/19/2001

First Named Inventor Daniel E. Resasco et al.

Group Art Unit 1754

Examiner Name S. Hendrickson

Attorney Docket Number 5820,615

(use as many sheets as necessary)

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		U.	S. PATE	NT	DOCUMENTS			
EXAM INIT.	Cite No. 1	<u>U.S. PATENT NUMBER</u> Number	Kind Code2 (if known)	Name of Patentee or Applicant of Cited Document MM-DD-YYYY		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
	FOREIGN PATENT DOCUMENTS							
EXAM INIT.	Cite No. 1	Foreign Patent Documen	t		Name of Patentee or Applicant of Cited Document	Cited Docu	ublication of ment MM- -YYYY	Pages, Columns, Lines Lines, Where Relevant Passages or Relevant Figures Appear
		Kind Code5 Office 3 Number 4 (if known)						
		PCT/US02/23155			PCT International Search Report	07/21	./2003	
		WO 00/73205 A1	_	<u> </u>	PCT	12/07	7/2000	
EXAM INIT.								
	ALVAREZ, ET AL., "Synergism of Co and Mo in the catalytic production of single-wall carbon nanotubes by decomposition of CO", Elsevier Science Ltd., Carbon 39 (2001), pp. 547-558.							
		BANDOW ET AL., "Effect of the Growth Temperature on the Diameter Distribution and Chirality of Single-Wall Carbon Nanotubes", <i>The American Physical Society</i> , Physical Review Letters, Vol. 80, No. 17, (1998), pp. 3779-3782						

EXAM INIT.		NON PATENT DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
		CHATURVEDI ET AL., "Properties of pure and sulfided NiMo04 and CoMo04 catalysts: TPR, XANES and time-resolved XRD studies", Database Accession No. EIX99044490981 XP002246342, Proceedings of the 1997 Mrs Fall Symposium, Boston, MA, USA, December 2-4, 1997; Mater Res Soc Symp Proc, Materials Research Society Symposium-Proceedings, Recent Advances in Catalytic Materials, 1998, Mrs. Warrendale, PA, USA.
		DE BOER ET AL., "The cobalt-molybdenum interaction in CoMo/SiO ₂ catalysts: A CO-oxidation study", <i>Elsevier Science Ltd.</i> , Solid State Ionics 63-65 (1993), pp. 736-742.
EXAMINE	₹	DATE CONSIDERED
		citation considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant. **Place of name of publication in which the information was published.